

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE TECH CENTER 1600/2900

Applicants: Lincoln et al.

Serial No.: 09/618,178

Examiner (from parent): Fredman, J.

Filed: July 18, 2000

Group Art Unit (from parent): 1655

For: AUTOMATIC GENOTYPE DETERMINATION

Kalow & Springut LLP 488 Madison Avenue, 19th Floor New York, NY 10022

September 5, 2000

Assistant Commissioner for Patents Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT

Sir:

In order to fulfill the requirements of candor and good faith set forth in 37 CFR § 1.56, Applicants submit herewith the following disclosures in accordance with the provisions of 37 CFR § 1.97 and § 1.98.

U.S. PATENT DOCUMENTS

PATENT NO.	TITLE	ISSUE DATE
4,309,112 to Ashley et al.	RATE MEASUREMENT ANALYZER	Jan. 5, 1982
4,852,017 to Hunkapiller	DETERMINATION OF PEPTIDE SEQUENCES	Jul. 25, 1989
5,221,518 to Mills	DNA SEQUENCING APPARATUS	Jun. 22, 1993
5,415,839 to Zaun et al.	APPARATUS AND METHOD FOR AMPLIFYING AND DETECTING TARGET NUCLEIC ACIDS	May 16, 1995
5,443,791 to Cathcart et al.	AUTOMATED MOLECULAR BIOLOGY LABORATORY	Aug. 22, 1995
5,449,621 to Klein	METHOD FOR MEASURING SPECIFIC BINDING ASSAYS.	Sep. 12, 1995

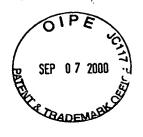
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I hereby declare that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner of Patents, Washington, D.C.,



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PATENT NO.	<u>TITLE</u>	ISSUE DATE
5,453,247 to	INSTRUMENT AND METHOD FOR THE	Sep. 26, 1995
Beavis et al.	SEQUENCING OF GENOME	
5,516,663 to	LIGASE CHAIN REACTION WITH	May 14, 1996
Backman et al.	ENDONUCLEASE IV CORRECTION	DEOE
	AND CONTAMINATION CONTROL	RECEIVED
		JAN 0 4 2002
	FOREIGN PATENT DOCUMENTS	TECH CENTER 1600/2900
		-511 52N12N 1600/2900
PATENT	TITLE	PUBLICATION

PATENT	TITLE	PUBLICATION
APPLICATION		DATE
NO.		
WO 88/03957		2 June 1998
	DETECTION AND/OR QUANTIFICATION	
	OF NON-VIRAL ORGANISMS	
WO 90/04651	MAPPING QUANTITATIVE TRAITS	3 May 1990
	USING GENETIC MARKERS	
WO 92/15712	NUCLEIC ACID TYPING BY	17 September
	POLYMERASE EXTENSION OF	1992
	OLIGONUCLEOTIDES USING	
	TERMINATOR MIXTURES	
WO 93/11262	METHOD OF SELECTING AT LEAST	10 June 1993
	ONE MUTATION SCREEN, ITS	
	APPLICATION TO A METHOD FOR	
	RAPID IDENTIFICATION OF ALLELES	
	OF POLYMORPHOUS SYSTEMS AND	
	DEVICE FOR IMPLEMENTATION	
	THEREOF	

OTHER DOCUMENTS

- 1. Fisher Scientific Catalog, p. 697, (1983).
- 2. Theo T. Nikiforov et al., "Genetic Bit Analysis: A Solid Phase Method for Typing Single Nucleotide Polymorphisms," *Nucleic Acids Research*, vol. 22, No. 20, pp. 4167-4175 (1994).
- 3. David J. Balding et al., "Statistical Analysis of DNA Fingerprint Data for Ordered Clone Physical Mapping of Human Chromosomes," Bulletin of Mathematical Biology, vol. 53, No. 6, pp. 853-879 (1991).

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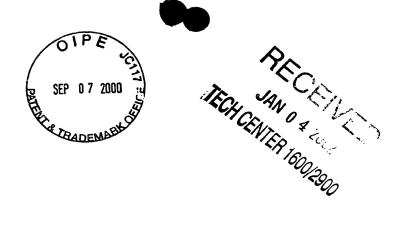
- Mark Keating, M.D., "Linkage Analysis and Long QT Syndrome Using Genetics 4. to Study Cardiovascular Disease," Circulation, vol. 85, No. 6 pp. 1973-1986 TECH CENTER 1600/2900 (1992).
- Tosh, Yasunaka et al., "Determination of Gene Recombination Value," Patent 5. Abstracts of Japan, vol. 018 no. 215 (C-1191) (1994).
- 6. David C. Mansfield et al., "Automation of Genetic Linkage Analysis Using Fluorescent Microsatellite Markers," Genomics, vol. 24, pp. 225-233 (1994).
- Mark D. Shriver et al., "VNTR Allele Frequency Distributions Under the 7. Stepwise Mutation Model: A Computer Simulation Approach," Genetics, vol. 134, pp. 983-993 (1993).
- M. Nata et al., "Prenatal paternity testing with DNA analyses," Internation 8. Journal of Legal Medicine, vol. 106, pp. 160-162 (1993).
- Colin P. Kimpton et al., "Automated DNA Profiling Employing Multiplex 9. Amplification of Short Tandem Repeat Loci," PCR Methods and Applications, vol. 3, pp. 13-22 (1993).
- W. Edward Highsmith, Jr., et al., "Frequency of the \(\Delta Phe^{508} \) Mutation and 10. Correlation with XV.2c/KM-19 Haplotypes in an American Population of Cystic Fibrosis Patients: Result of a Collaborative Study," Clin. Chem., vol. 36 no 10, pp. 1741-1746 (1990).
- Andrew G. Clark, "Inference of Haplotypes from PCR-amplified Samples of 11. Diploid Populations," J. Biol. Evol., vol. 7 no. 2, pp. 111-122 (1990).
- W. Y. Tan, "On the Distribution of the Number of Mutants at the 12. Hypoxanthine-Quanine Phosphoribosal Transferase Locus in Chinese Hamster Ovary Cells," Mathematical Biosciences, vol. 67, pp. 175-192 (1983).

The above documents are also listed on Applicants' PTO 1449 Form which is enclosed for the convenience of the Examiner. A copy of each of the items identified above is submitted with this statement.

The attorneys for the Applicants take no position on whether or not any item cited above and listed on Form PTO 1449 constitutes prior art against the subject application under any particular provision of Title 35 of the United States Code.

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The Commissioner is hereby authorized to charge any fees which may be required for this Information Disclosure Statement to Deposit Account No. 11-0171.

Respectfully submitted,

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